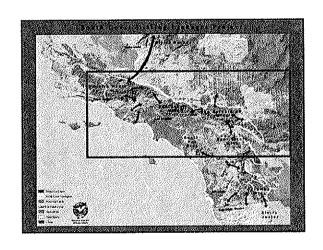
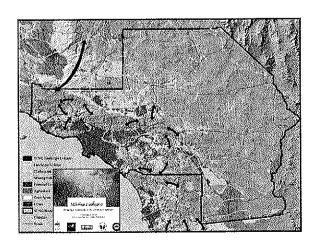
# Conserving Wildlife Corridors in the SCAG Region





	······································	 
<del>, , , , , , , , , , , , , , , , , , , </del>		 
	•	

# We will build on the sciencebased approach

#### developed for 2 efforts

- Arizona Wildlife Linkage Workgroup 24 linkage designs in Arizona, 2005-2008
- South Coast Missing Linkages
   Stinkage designs in S. California, 2001-2006









# Start by defining the "rooms" (Corridors connect cores.)

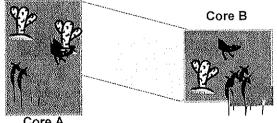


Core A





# Identify Potential Linkages (areas where connectivity is at risk)



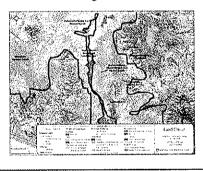
Core A

## Foreground and background define each other





## Cores, Potential Barriers, and Potential Linkages define each other

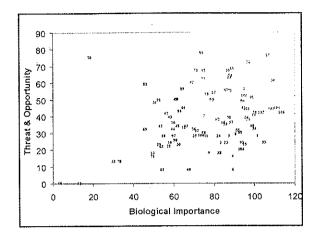


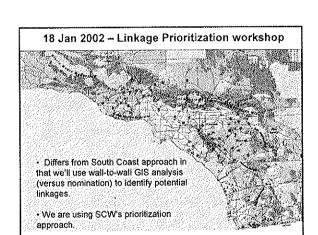
#### "Context not content"

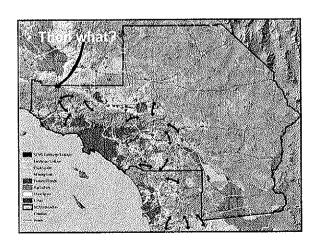
We calculate Biological Value of each core as function of

- Size
- Type
- Quality
- Uniqueness

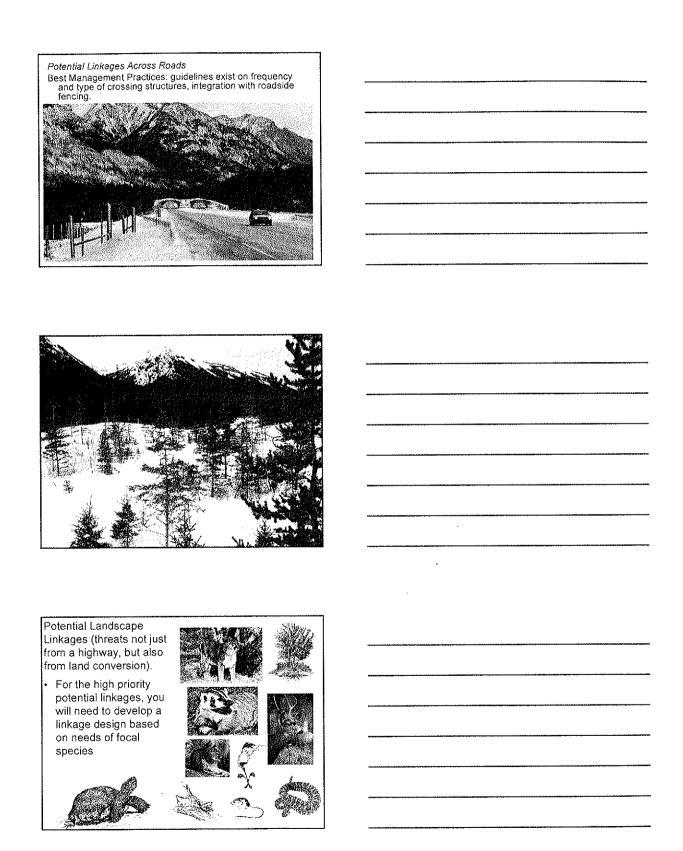
- We calculate Biological Value of each Potential Linkage as function of
  the biological value of the 2 cores (!)
  the quality & uniqueness of the potential linkage itself are secondary factors.







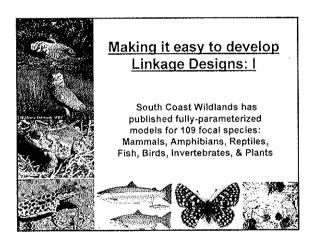
<u></u>	 	
•		



#### Developing Linkage Designs for High Priority Potential Linkages

You want to make sure your limited resources turn a *Potential* Linkage into a *Real, Conserved* Linkage!

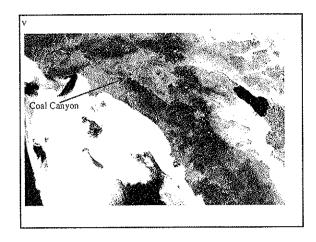
And we'll make it possible to produce Linkage Designs yourself in house...

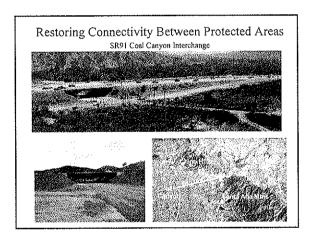


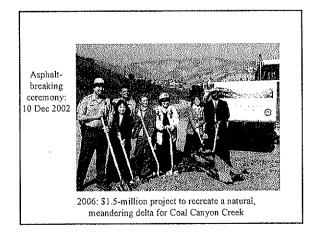
#### Making it easy to develop Linkage Designs: II

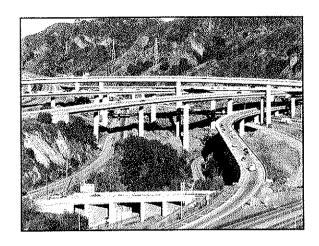
#### gisCORRIDOR

- My lab at NAU will offer this package of tools starting spring 2007
- · Software and tutorials will be free.
- · Optional 1/2-day training at low cost.
- Plus: EVALUATION tools to compare compromise designs to the biological optimum. These new tools will be crucial for implementation.



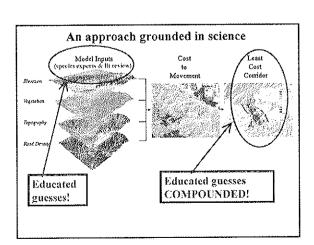


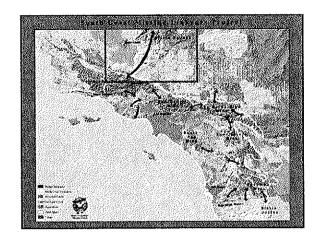




Sensitivity Analysis of our Approach

Supplemental Slides





# Sensitivity Analysis for 8 focal species.

- 1. Is the Linkage Design for an individual species stable when input parameters vary? (A: Yes for 5 species, No for 3 species.)
- 2. Even if individual LCC's are unreliable, is the Union of LCCs stable to uncertainty in input parameters? (A: Yes!)

Using multiple species mitigates errors in single-species models

The union of predicted LCC's captured 70-100% of each species' worst-case alternative (mean: 84%)